

# **BMMP** Business Management Modernization Program

## **Business Enterprise Architecture Version 2.2 Introduction and Walk-Through**

**Welcome Back!**

**August 2, 2004**

*Department of Defense*

**Arming the Warfighter Through Business Improvement**

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# Today's Agenda

9:00	Welcome and Meeting Objectives – Paul Tibbits
9:30	BEA 2.2 Overview – Marilyn Fleming
10:15	<b>BREAK</b>
10:25	Architecture Integration Team (AIT) – Enterprise Business Process Model (EBPM) Introduction (OV-6c) – Reggie Brown
10:35	EBPM – Background – Mark Hogenmiller
10:55	EBPM – Foundation for a Sustainable Unqualified Audit Opinion (UAO) – Marsha Porter
11:15	EBPM – Asset Accountability and Valuation – Karl Omatsola
11:35	EBPM – Total Force Visibility – Rod Eslinger
11:55	EBPM – Questions and Answers
12:10	<b>LUNCH</b>
1:10	BEA 2.2 All Views (AV) – Deedee Akeo
1:30	Compliance Requirements/Business Rules (OV-6a) – John Crowley
1:50	Data Model Development (OV-7) – Charles Bowen
2:10	<b>BREAK</b>
2:20	Questions and Answers (Panel)
2:50	Wrap-up and Next Steps – Reggie Brown
3:00	Adjourn

# **BMMP** Business Management Modernization Program

## **BEA 2.2 All Views (AV)**

**Presented by: Ms. Deedee Akeo**

**August 2, 2004**



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# The Overview & Summary Document (AV-1)

- The AV-1 contains an overview and summary of the architecture
- It expresses the vision, objectives, scope, and context that should be reflected in the architecture
- Contains “sufficient textual information to enable a reader to select one architecture from among many” (DoDAF, Volume II)



# BEA 2.2 AV-1 Modifications

- Written from an Architecture perspective vs. Program perspective
- Minimized historical/future content (unless it provides understanding and clarity)
- Improved readability: program before technical content
- Summarized BEA 2.2 effort in Section 4, “Scope: Architecture Views and Products Identification”
  - Supported by High-Level Narrative Summary



# AV-1 DoDAF Format

DoDAF Vol. II Figure 3-1. Overview and Summary Information (AV-1) - Representative Format

Exchanged



- **Architecture Project Identification**
  - Name
  - Architect
  - Organization Developing The Architecture
  - Assumptions and Constraints
  - Approval Authority
  - Date Completed
  - Level of Effort and Projected and Actual Costs to Develop the Architecture
- **Scope: Architecture View(s) and Products Identification**
  - Views and Products Developed
  - Time Frames Addressed
  - Organizations Involved
- **Purpose and Viewpoint**
  - Purpose, Analysis, Questions to Be Answered by Analysis of the Architecture
  - From Whose Viewpoint The Architecture Is Developed
- **Context**
  - Mission
  - Doctrine, Goals, and Vision
  - Rules, Criteria, and Conventions Followed
  - Tasking For Architecture Project, And Linkages To Other Architectures
- **Tools and File Formats Used**
- **Findings**
  - Analysis Results
  - Recommendations



# BEA 2.2 AV-1 Format

Revised



1. Architecture Project Identification
  - 1.1 Name
  - 1.2 Architect
  - 1.3 Organizations Developing the Architecture
  - 1.4 Assumptions and Constraints
  - 1.5 Approval Authority
  - 1.6 Date Completed
  - 1.7 Level of Effort and Projected and Actual Costs to Develop the Architecture
2. Context
  - 2.1 Mission
  - 2.2 Goals and Vision
  - 2.3 Rules, Criteria or Conventions
  - 2.4 Tasking for Architecture Project, and Linkages to Other Architectures
3. Purpose and Viewpoint
  - 3.1 From Whose Viewpoint the Architecture is Developed
  - 3.2 Purpose, Analysis, Questions to be Answered by Analysis of the Architecture
4. Scope: Architecture Views and Products Identification
  - 4.1 Views and Products Developed
  - 4.2 Time Frames Addressed
  - 4.3 Organizations Involved
5. Tools and File Formats Used
6. Findings
  - 6.1 Enterprise-wide
  - 6.2 Lessons from Architecture Development for a Very Large Enterprise



# Integrated Dictionary (AV-2)

- The Integrated Dictionary contains definitions of terms used in the architecture
- It contains a common terminology with common definitions, referred to as “taxonomies”
  - Provides consistency across products / architectures





# BEA 2.2 AV-2 Changes

- EBPM updates
  - 95 process steps
  - 1 enterprise pool
  - 11 swim lanes
  - 311 sequence flows / 16 gateways
  - 80 data objects & definitions
  - 75 business rules linked to process steps
- Incorporated data models and their associated elements
  - Defense & Personnel Data Model – DPDM (HRM)
  - Environmental (I&E)
- Material Weaknesses incorporated for future mapping to EBPM process steps
- Includes updated objects and definitions relative to other architecture product changes

# **BMMP** Business Management Modernization Program

## **COMPLIANCE REQUIREMENTS / BUSINESS RULES (OV 6A)**

**Presented by: Mr. John Crowley**

**August 2, 2004**



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# Process for identifying Compliance Requirements & Business Rules for BEA 2.2

- Procedures were based on Architecture Integration Team (AIT) Methodology developed collaboratively by Domains and BMSI
- EBPM was created by Domains
- Source documents were identified by Domains and arranged hierarchically:
  - External sources
    - US Code and Public Law
    - Executive Orders
    - Code of Federal Regulations
    - Federal Accounting Standards Advisory Board documents
    - Office of Management and Budget Circulars
    - Other Accounting Principles
  - Internal sources
    - DoD Financial Management Regulations
    - Manuals and Regulations



# Process for Identifying Compliance Requirements & Business Rules for BEA 2.2 (cont.)

- Sources reviewed based on priority and relevance to Unqualified Audit Opinion (UAO), Asset Accountability & Valuation (AA&V) and Total Force Visibility

Priority Order for Review	Hierarchy	Source Name
1	USC Public Law	USC Title 10 - Armed Forces
2	USC Public Law	USC Title 31 - Money and Finance
3	USC Public Law	Public Law 97-255 - Federal Managers Financial Integrity Act of 1982
4	USC Public Law	Public Law 103-356 - Government Management Reform Act of 1996
5	USC Public Law	Public Law 103-62 - Government Performance Results Act of 1993
6	USC Public Law	Public Law 104-208 - Federal Financial Management Improvement Act of 1996
7	USC Public Law	USC Title 5 Government Organization and Employees **
8	USC Public Law	USC Title 16 Conservation**
9	USC Public Law	USC Title 37 - Pay and Allowances
10	USC Public Law	USC Title 32 - National Guard
11	USC Public Law	USC Title 40 - Public Buildings Property and Works
12	USC Public Law	USC Title 41 - Public Contracts
13	USC Public Law	USC Title 42 - The Public Health and Welfare**
14	USC Public Law	USC Title 42 - The Public Land **
15	Executive Orders	EO 12512 - Federal Real Property Management - Revoked by EO13327
16	Executive Orders	EO 13327 Federal Real Property Asset Management
17	FASAB	SFFAC-1 - Objectives of Federal Financial Reporting
18	FASAB	SFFAC-2 - Entity and Display
19	FASAB	SFFAC-3 - Managerial Discussions and Analysis
20	FASAB	SFFAC-4 - Intended Target Audiences



# Process for Identifying Compliance Requirements & Business Rules for BEA 2.2 (cont.)

- Relevant sources of compliance requirements and potential business rules were identified and mapped to EBPM
- AIT effort used spreadsheets based on AIT Methodology, Appendix B (Requirements Template)

Microsoft Excel - SFFAS-3.xls

File Edit View Insert Format Tools Data Window Help

Arial 10 B I U

A144 SFFAS3.63

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Primary Reference	Unique ID	Requirement/Rule Description	Requirement Business Rule Type	Business Rule Name	Requirement Classification	Linked to Requirement	Modifications	Financially Relevant	Added to SA	Assess	Process Linkage 1	Process Linkage 2	Process Linkage 3	Process Linkage 4	Process Linkage 5	
1	SFFAS3.63	VALUATION. 63 Seized property shall be valued at its market value when seized or, if market value cannot be readily determined, as soon thereafter as reasonably possible. Market value shall be based on the value of the property assuming an active market exists for the property. If no active market exists for the property in the general area in which it was seized, a value in the principal market nearest the place of seizure shall be used.	Compliance Requirement		Primary			Y	N	X	Manage Financial Record of a Sale and Status of Assets	Book or Record Asset	Establish and Update Valuation Conventions	Update and Manage Asset Record	Create Initial Asset Record	
144	SFFAS3.64	EXCEPTIONS TO VALUATION. 64 Valuation of property seized under the Internal Revenue Code shall be based on the taxpayer's equity, that is, market value less any third-party liens.	Compliance Requirement		Primary			N	N							
145	SFFAS3.65	65 Seized monetary instruments shall be valued at their market value.	Compliance Requirement		Primary			Y	N	X	Manage Financial Record of a Sale and Status of Assets	Book or Record Asset	Establish and Update Valuation Conventions			
146	SFFAS3.66	Disclosure Requirements. 66						Y	N	X	Produce	Produce	Produce	Produce	Produce	

Ready



# Process for Identifying Compliance Requirements & Business Rules for BEA 2.2 (cont).

- Results of the Domain-led AIT effort was basis for BEA 2.2
  - Total number of source documents reviewed: 44
  - Total number of potential relevant requirements reviewed: 34,992
  - Total number of compliance requirements identified as relevant: 5,344
  - Total number of business rules identified: 75
  - Source document status:
    - Workshop objectives completed on 25 June 2004
    - US Code and Public Law: 13 reviewed
    - Executive Orders: 2 reviewed
    - OMB Circulars: 1 reviewed
    - FASAB: 29 reviewed



# Process for Identifying Compliance Requirements & Business Rules for BEA 2.2 (cont).

- All spreadsheets imported into the BEA requirements repository using Dynamic Object-Oriented Requirement System (DOORS) and organized in the source hierarchy with all spreadsheet data captured

The screenshot displays the BEA Database interface. On the left, a tree view shows the hierarchy: BEA Database > Production > Domain > External Requirements > 4-FASAB. The main pane shows a list of requirements, including SFFAC-1 through SFFAC-4 and SFFAS 1 through SFFAS 4. Below this, a table titled 'Default 01 view' lists specific requirements.

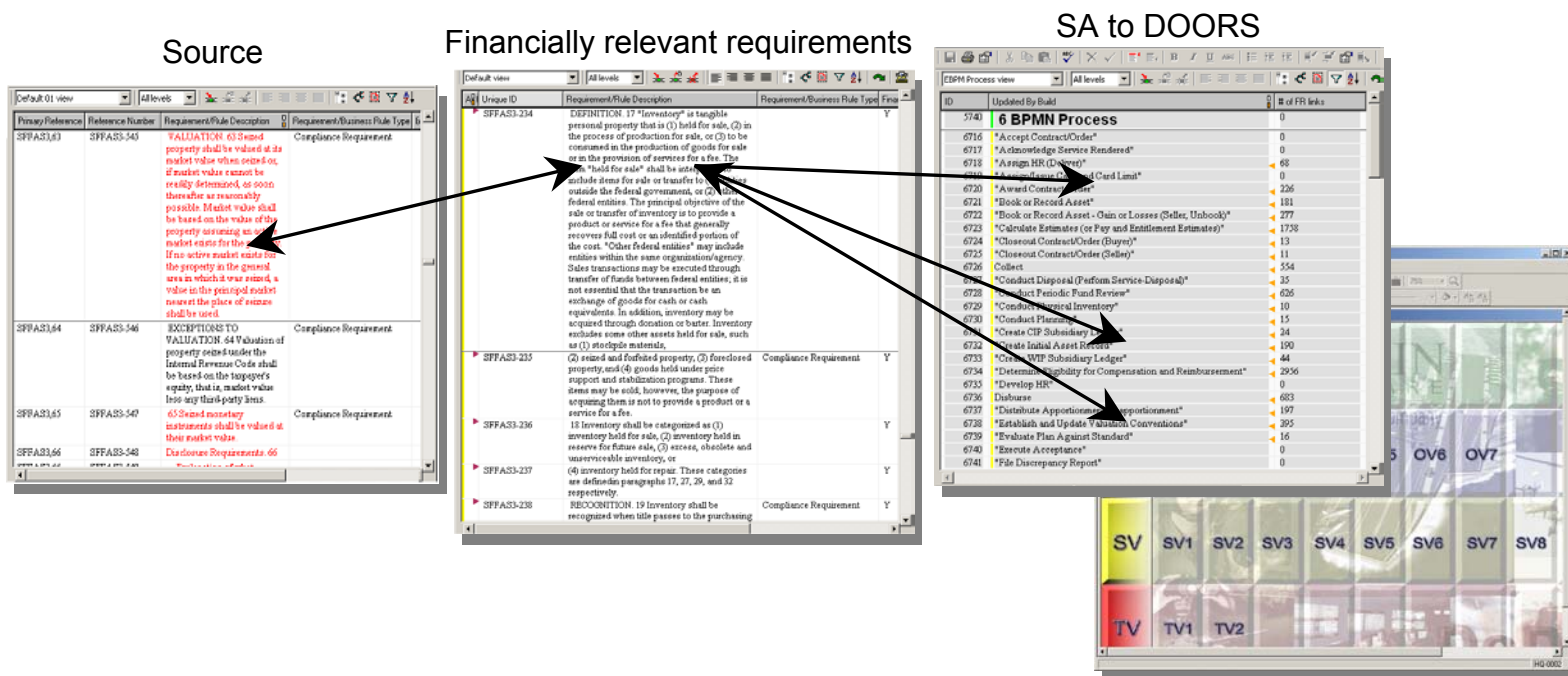
Primary Reference	Reference Number	Requirement/Rule Description	Requirement/Business Rule Type	Business Rule Name	Requirement Classification	Linked to Requirement	Modifications	Financially Relevant	Add to
SFFAS3,63	SFFAS3-545	VALUATION 63 Seized property shall be valued at its market value when seized or, if market value cannot be readily determined, as soon thereafter as reasonably possible. Market value shall be based on the value of the property assuming an active market exists for the property. If no active market exists for the property in the general area in which it was seized, a value in the principal market nearest the place of seizure shall be used.	Compliance Requirement		Primary			Y	N
SFFAS3,64	SFFAS3-546	EXCEPTIONS TO VALUATION 64 Valuation of property seized under the Internal Revenue Code shall be based on the taxpayer's equity, that is, market value less any third-party liens.	Compliance Requirement		Primary			N	N
SFFAS3,65	SFFAS3-547	65 Seized monetary instruments shall be valued at their market value.	Compliance Requirement		Primary			Y	N
SFFAS3,66	SFFAS3-548	Disclosure Requirements: 66						Y	N





# Process for Identifying Compliance Requirements & Business Rules for BEA 2.2 (cont.)

- DOORS maintains linkage to System Architect (SA) EBPM processes using automated SA to DOORS integration
- Relevant source requirements organized in a common document and linked to the EBPM processes providing complete traceability from each source to all associated EBPM processes







# Process for Identifying Compliance Requirements & Business Rules for BEA 2.2 (cont.)

- Relevant source requirements are linked to EBPM processes in DOORS which are automatically linked to the SA EBPM processes

The screenshot displays two software windows. The 'System Architect' window on the left shows a project tree with various business processes, including 'Make Payment - External'. A context menu is open over this process, with 'Find in DOORS' highlighted. The 'DOORS' window on the right shows a table of requirements. A red arrow points from the 'Find in DOORS' menu item to a specific requirement entry in the table.

Primary Reference	Unique ID	Requirement/Rule Description	Requirement/Rule
SFFAS3,63	SFFAS3-323	VALUATION. 63 Seized property shall be valued at its market value when seized or, if not, then the value shall be determined as follows: 1. If the property is sold, the value shall be the sale price. 2. If the property is not sold, the value shall be the fair market value as determined by the Department of Defense.	Compliance

The 'DOORS' window also shows a list of business processes under the 'By Build' tab, including 'Treasury Warrant', 'Payment - External', 'Financial Record of a Sale and Status of Assets', 'Buy/Receive Goods or Services (External Non-DoD Buyer)', 'Contract/Order', 'Sale and Perform Service/Good (External Non-DoD Seller)', 'Sales Contract/Order', 'Acceptance Procedures', 'Inspection & Verification', 'Logistics (Deliver)', 'Logistics (Make/Maintain)', 'Service: Installations, Environment, Safety & Occupational Health Ste...', 'Service-New Footprint Construction', 'Business Resources', 'Apportionment Reports', 'Commitment Reports', 'Execution Reports', 'Obligation Reports', 'Payables/Assets/Expenses and Revenue/Receivables Reports', 'Reimbursables Reports', 'Use, Verify and Certify Purchase Card', 'Contract/Order', 'Payment - External', 'Payment Data - Federal Reserve Bank', 'Manage Expenses', and 'Manage Payable'.



## What is in the BEA 2.2 ?

- High-level Narrative Summary
- Complete Production DOORS database
- A complete set of Excel spreadsheets exported from DOORS for all completed source documents



# What's Next ?

- US Code and Public Law: 15 remain
- Executive Orders: 17 remain
- Code of Federal Regulations (CFR): 7 remain
- OMB Circulars: 15 remain
- Other external sources: 34 remain
- Internal sources: 61 remain

# **BMMP** Business Management Modernization Program

## **Data Model Development (OV-7)**

**Presented by Mr. Charles Bowen**

**August 2, 2004**



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# Overview

- Introduction
- Objectives
- What is a Data Model
  - What is it's use
  - What is it's benefit
- What's new in the 2.2 Release
- What's not in the 2.2 Release
- What's next
- Example – Linking OV-7 to OV-6c



- Enterprise Data Model (EDM)
  - Captures and models data requirements across the Business Domains
  - Enables data interoperability by being the definitive source of the shared data vocabulary for the DoD Business Domains via the BEA EDM
  - Integrates Business Domains' data models, providing a single authoritative source for DoD business data



# What is a Data Model/OV-7

A graphical representation of the structure and characteristics of the information in an environment or system.



# OV-7 Benefits

- Provides a common means of:
  - Defining the information/data
  - Representing information requirements
  - Communicating complexity of the information
- Presents different views of the enterprise's information
- Offers a means to understand and analyze an organization's information requirements
- Provides an application-independent view of data which can be validated by users and transformed into a physical database design





# Data Model Syntax and Semantics

- The logical data model, or OV-7, describes the information needed to perform activities
  - Provides a structure, or graphical syntax (boxes, text, and lines), for representing the component (entities, attributes and relationships), and the rules governing its use
  - Provides semantic context, or representative meaning, for the things represented in the model.



# What's New in the BEA v2.2 – OV-7

- HRM provided data model views
  - Business Planning
  - Acquire
  - Assign
  - Develop
  - Pay
  - Retain
  - Separate
- I&E provided data model views
  - Sample analysis and location view
  - Environmental Safety Occupation and Health compliance agreement
  - Environmental Safety Occupation and Health area of interest
- 44 Other change requests



# What's Not in BEA v2.2 – OV-7

- OV-7 is not fully representative of each Domain
- OV-6c was not linked to OV-7



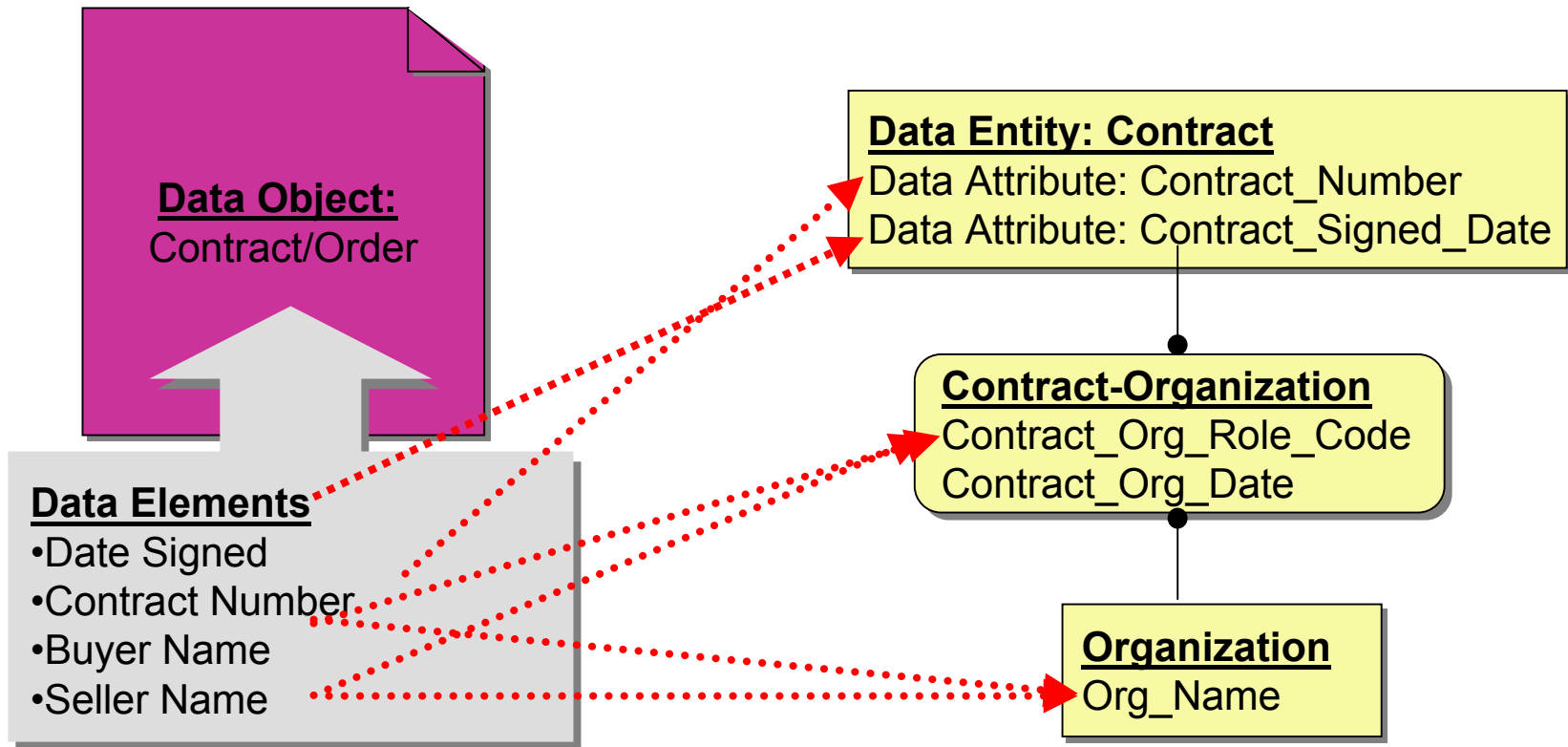
# What's Next ...

- Goal for BEA v2.3 to reflect the enterprise data needs of each Domain in the BEA
- OV-7
  - Integrate approved Data Models from every Domain (ongoing)
- OV-6c
  - Continue the Data Object Working Group to identify the Data Elements
  - Obtain approval of OV-6c Data Elements
  - Revise the OV-7 with Data Elements identified in OV-6c
  - Link the OV-6c Data Elements to OV-7 Data Entity/Attributes (See Example)



# Example - Linking OV-6c to OV-7

- OV-6c
- Data Objects
- Data Elements
- OV-7 Logical Data Model
- Entities
- Attributes



# **BMMP** Business Management Modernization Program

## **Business Enterprise Architecture Version 2.2 Introduction and Walk-Through**

### **Questions & Answers**

**August 2, 2004**

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# **BMMP** Business Management Modernization Program

## **BEA 2.2 Walk-Through Wrap-Up**

**August 2, 2004**

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# Who Do I Contact?

- **BEA 2.2 products are available at the BMMP Portal**
- **Direct comments and questions on this release to the appropriate Domain business areas**
- **Domain contact information is available on the BMMP portal**
- **Responses are due *August 11, 2004***





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*"The war on terrorism does not supplant the need to transform DoD; instead, we must accelerate our organizational, operational, business, and process reforms."*

Secretary of Defense  
Donald Rumsfeld



Welcome to the Business Management Modernization Program (BMMP). BMMP represents an unprecedented effort to integrate financial management and business operations into a joint Defense Department business enterprise. We strive to support our warfighters with world-class business operations. Through business transformation we will:

- Expend fewer resources on business processes and systems
- Ensure that men and woman in uniform have the business information they need when they need it
- Inform Congress and the public, with confidence, of where we spend resources within the Department of Defense

*Last Updated: 05/14/2004*

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**Thank You for your Support!**

**August 2, 2004**

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